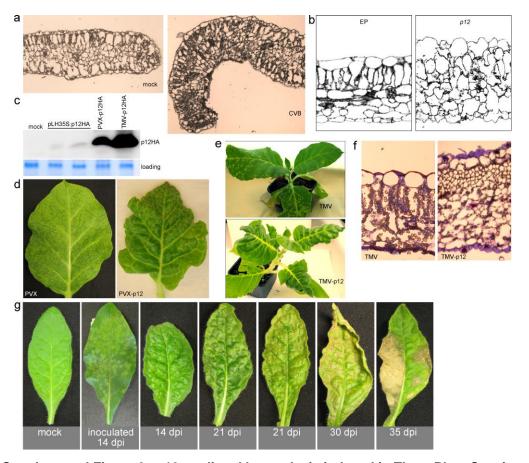


Supplemental Figure 1. Position of p12 in the virus genome and similarity of the p12 protein to other viral zinc-finger proteins.

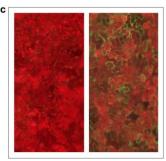
- (A) Genome organization of a typical carlavirus (*Chrysanthemum virus B*). Boxes depict viral genes, molecular masses of the encoded proteins are shown. The double-headed arrows denote functions of the genes during a virus infection cycle.
- (**B**) PVX and TMV constructs used in this study. Black arrowheads show positions of duplicated subgenomic RNA promoters. ORF for p12 protein is shaded in dark gray.
- (C) Sequence alignment of the RCxRCxRxxPx₆₋₈CDxxxC zinc-finger domain and adjacent NLS of CRP from 16 carlaviruses. Identical amino acid residues are boxed and shaded grey. Positions of NLS and zinc finger motif are indicated. Asterisks denote cysteine residues involved in zinc finger formation. Numbers of amino acid residues upstream and downstream of the aligned regions are shown in parentheses. The CRPs aligned are from the following caralaviruses: CVB, chrysanthemum virus B (accession number S60150); AcLV, aconitum latent virus (AB051848); BIScV, blueberry scorch virus (L25658); CLV, carnation latent virus (X55897); CoLV, cole latent virus (AY340584); DVS, daphne virus S (AJ620300); HpLV, hop latent virus (AB032469); HpMV, hop mosaic virus (AB051109); KLV, kalanchoe latent virus (AJ293570); LSV, lily symptomless virus (AJ516059); NCLV, narcissus common latent virus (AM158439); NeLV, nerine latent virus (DQ098905); PopMV, poplar mosaic virus (X65102); PVM, potato virus M (D14449); PVS, Potato virus S (AJ863509); SLV, shallot latent virus (AJ292226).



Supplemental Figure 2. p12-mediated hyperplasia induced in Three Plant Species.

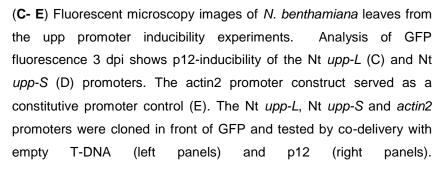
- (A) Cross sections through the tip, the oldest part of the leaf, of chrysanthemum upper leaves from mock inoculated plants and from plants systemically infected with CVB. Note the curling of the CVB-infected leaf.
- (**B**) Transient expression by *Agrobacterium* infiltration of CVB *p12* causes hyperplasia 4 dpi relative to empty transferred DNA (T-DNA), EP.
- (**C**) Detection of the hemagglutinin-tagged (HA) p12 by Western blotting in samples collected from the *Agrobacterium* infiltrated tobacco leaves (35S_{pro}:p12HA construct) and the leaves infected with PVX-p12HA or TMV-p12HA using antisera to the HA-tag.
- (**D** and **E**) Appearance of the symptoms induced by empty PVX vector and PVX-p12 (D), and empty TMV vector and TMV-p12 (E) in tobacco. Note severe leaf malformation as compared to mosaic induced by TMV and PVX.
- (F) Cross sections and light microscopy of upper tobacco leaves infected with TMV and TMV-p12.
- (**G**) Foliar symptoms on native tobacco (*Nicotiana occidentalis* ssp. *hesperis*) produced by CVB in upper (unless specified) leaves. Initial symptoms are small necrotic lesions in inoculated leaves 14 dpi and hyperplasia in systemically infected leaves14-21 dpi. Notice the overlap of hyperplasia and necrosis at 21-30 dpi. As the disease progresses, the entire leaf may become necrotic.

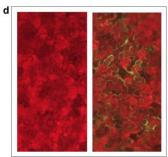
а UPA box ################### NtUpp-L -80 TATTTTTAGCTAAAATTTGG---ATGCCTTATCTCTCTCTTATGTTTATATAAACCTGACCCTTTAGGACTTTCTCAAACTC -1 NtUpp-S -80 TATTTTTAGCTAATATTTGG---ATGTCCTATCTCTCTCTTATGTTTATATAAACCTGACCCTTTGGGACTTTCTCAAACTC-1 NtUpp-L -259 GTACTGTGTATGTTTATAATGATAGTACTGTTCTGACATCATTATCTGCTAGCTTAAATTATTTAATATGTTAAA Ntupp-S -303 GTACTGTGTATATTTATAATGATTGTACTGTTCTGACATCATTATCTGCTAGCTTAAATTATTTAATATGTTAAA Ntupp-L GGAAAATTATTTAATA------AGCTTGGCATATTTAATAGC -103 NtUpp-L TCCCACCTTCCAAAAGCTTGATAAGACCAGTCAAATGCAAAGCAACTGCATGGGTATGAGCTAGAAAATATTTTTTAGCTA NtUpp-S CCCCACCTTCCCAAAGCTTGATTAGACCAGTCAAATACAAAGCAACTGCATGGGAATGAGCTAGAAAGTATTTTTAGCTA UPA box Ntupp-L AAATTTGGATGCCTTATCTCTCTCTTATGTTTATATAAACCTGACCCTTTAGGACTTTCTCAAACTC -1 Ntupp-S ATATTTGGATGTCCTATCTCTCTCTTATGTTTATATAAACCTGACCCTTTGGGACTTTCTCAAACTC -1

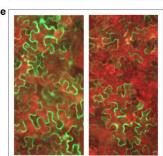


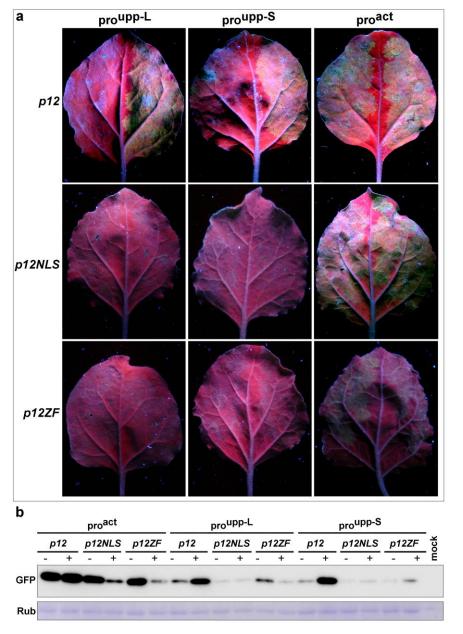
Supplemental Figure 3. Analysis of the *upp* promoter sequences and upp promoter inducibility.

- (A) Comparison of the sequences surrounding the UPA box in the upp promoters from tobacco and UPA20 promoter from pepper. Note conservation of the UPA box.
- (**B**) Sequence comparison of the Nt *upp-L* and Nt *upp-S* promoters. The UPA box is indicated.



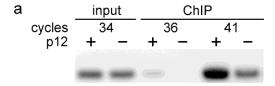


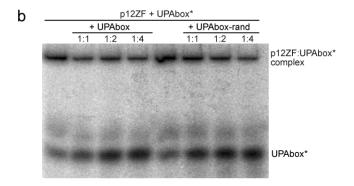




Supplemental Figure 4. p12 Mutants with an altered NLS or zinc-finger fail to activate both the Nt *upp-L* and Nt *upp-S* promoters.

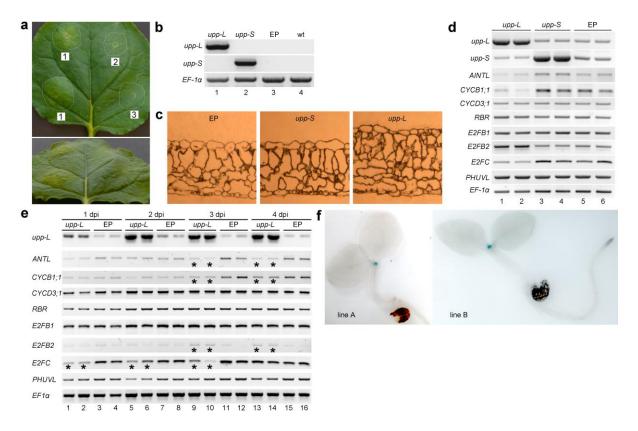
- (A) Left half of the leaves was *Agrobacterium*-infiltrated for co-delivery of empty T-DNA and promoter:GFP construct as indicated above the panels. Right half of the leaves was infiltrated with promoter:GFP construct (identity of each construct is above the images) and 35Spro:gene construct (identity of each gene or mutant is on the left of panels). p12NLS, the *p12* mutant for NLS. p12ZF, the *p12* mutant for zinc finger.
- (**B**) Analysis of GFP expression levels 3dpi through immunoblot. A coomassie blue staining for Rubisco is presented as a loading control.





Supplemental Figure 5. Analysis of p12 association with the *upp* **promoters.** (**A**) ChIP analysis conducted with HA-specific antibodies on extracts from PVX and PVX-p12HA infected plants. PCR with 34, 36 and 41 cycles was conducted before immunoprecipitation (input) or on immunoprecipitated material (ChIP). The data are from our first experiment, the data from the second experiment are presented in Figure 3B.

(B) EMSA of pre-formed complexes of labeled 40-bp proupp fragment containing upa box (UPAbox) and constant amount of p12ZF, a p12 mutant for zinc-finger, (protein:DNA molar ratio of 200:1) incubated with increasing amounts of unlabelled competitor DNA, either UPAbox or UPAbox-rand (same as the UPA box but with randomized upa box sequence), added at the indicated molar ratios to the labeled UPA box. p12ZF is impaired in zinc-dependent DNA binding but retains a weaker non-specific DNA binding activity due to its positively charged NLS (Lukhovitskaya et al., 2009).

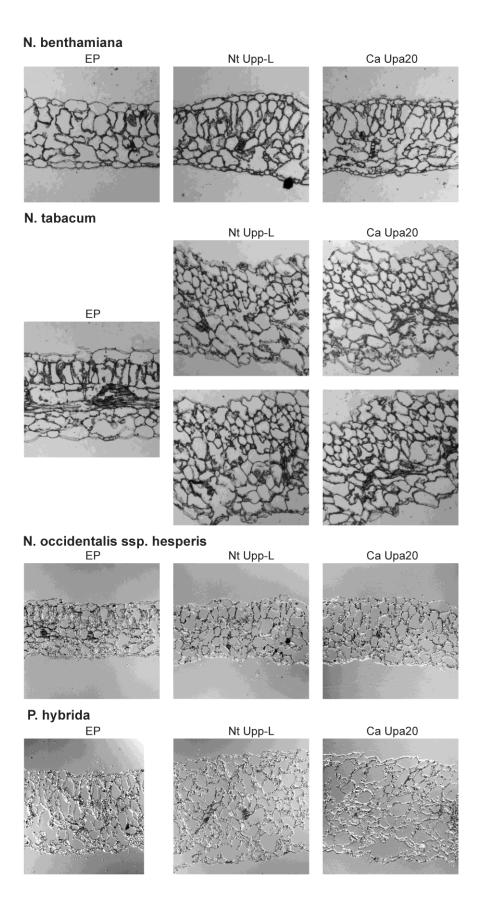


Supplemental Figure 6. Ectopic expression of Nt *upp-L* but not Nt *upp-S* causes hyperplasia in leaves, while Nt *upp-L* is normally expressed in the SAM.

- (A) Transient expression by *Agrobacterium* infiltration of Nt *upp-L* (1) but not Nt *upp-S* (2) causes hyperplasia 4 dpi relative to empty transferred DNA (T-DNA) (3) in *N. benthamiana*, respectively. Little patches were infiltrated as shown by dashed white lines. The picture of the leaf shown in the lower panel was taken from an angle to better visualize hyperplasia.
- (**C**) Cross sections and light microscopy of *N. benthamiana* leaves 4 dpi with *Agrobacterium*-mediated delivery of Nt *upp-L*, Nt *upp-S* and empty T-DNA. Scale bars correspond to 100 µm.
- (**D**) Expression analysis of the genes of the CYCD/Rb/E2F pathway, some leaf patterning genes and Nt upp-L and Nt upp-
- (**E**) Expression analysis of the core cell cycle genes, some leaf patterning genes and Nt *upp-L* by RT-PCR on cDNA of the *Agrobacterium* infiltrated tobacco leaf discs. The upper panel shows strong

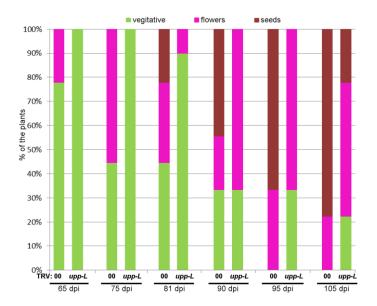
overexpression of Nt *upp-L* upon *Agrobacterium*-mediated delivery. Of the eight other genes tested, the transcript levels of one of the Nt *E2F* genes were elevated (indicated with asterisks), and Nt *ANTL*, Nt *CYCB1;1* and Nt *E2FC* genes were downregulated (indicated with asterisks) in the Nt *upp-L*-overexpressing leaf areas. Lanes 1 and 2, 3 and 4, 5 and 6 etc. represent two of four plant replicates for each treatment, respectively. The experiment was repeated twice with similar results. The gene for EF1α served as a reference gene. EP, empty transferred DNA (T-DNA).

(F) Tissue specific expression of GUS under the control of the Nt *upp-L* promoter. Images show one-week old plants of two transgenic lines, in each case transformed with the *upp-L*pro:*GUS* construct. GUS activity was visualized by treatment with X-GlcA (5-bromo-4-chloro-3-indolyl-b-D-glucuronic acid).



Supplemental Figure 7. Hyperplasia induction in four plant species by Nt *upp-L* and Ca *UPA20*.

Cross sections and light microscopy of *N. benthamiana*, *N. tabacum*, *N. occidentalis* ssp. *hesperis* and *Petunia hybrida* leaves with the Agrobacterium-mediated delivery of Nt *upp-L*, Ca *UPA20* and empty T-DNA 5 dpi. Previously it was shown that the Xanthomonas pathogenic AvrBs3 TALe induces the UPA20 TF in infected pepper tissue (Key et al., 2007). The phenotypes associated with the Ca *UPA20* induction included cell expansion, reduced starch and increased cellulose accumulation in cell walls. In contrast, our data demonstrated that Nt *upp-L* induced cell proliferation and is expressed in the SAM (Figure 4B; see Supplemental Figure 6C and 6F). It is possible that different members of the UPA/upp-like TFs (Figure 1H) mediate both cell proliferation and cell expansion. To address this question Ca *UPA20* and Nt *upp-L* were individually expressed in *Solanaceae* species by *Agrobacterium* infiltration and tissue morphology was analyzed. Surprisingly, in four independent experiments in four plant species *Agrobacterium*-mediated Ca UPA20 overexpression induced hyperplasia similar to the phenotypes observed upon Nt *upp-L* overexpression. These results differ from the previous report on Ca *UPA20* (Key et al., 2007), but are consistent with earlier reports of the same research group showing e.g. the avrBs3-mediated hyperplasia of *N. clevelandii* tissue (Marois et al., 2002).



Supplemental Figure 8. Delay in vegetative to floral transition of tobacco plants silenced for *upp-L*.

The experiments were repeated twice with similar results (n=18).

Supplemental Table 1. *Upp/UPA*-like genes used in the phylogenetic analysis.

Abbreviation	Binomial name	Accession number
	(common name)	
At	Arabidopsis thaliana	At5g50915 (bHLH137),
	(thale cress)	At1g59640 (BIGPETALp)
Bd	Brachypodium distachyon	XP003574844
	(purple false brome)	
Ca	Capsicum annuum	ABW22630
	(pepper)	
Cs	Citrus sinensis	ABW97699
	(sweet orange)	
Gm	Glycine max	XP003526933
	(soya bean)	XP003522447
Lj	Lotus japonicus	ACN21645
Md	Malus domestica	EG631304
	(apple tree)	
Mt	Medicago truncatula	AET05042
	(barrel clover)	
Nh	Nicotiana occidentalis ssp.	HE653926 *
	hesperis	
	(native tobacco)	
Nt	Nicotiana tabacum cv.	HE653924 (upp-L)*
	Samsun nn	HE653925 (upp-S)*
	(cultivated tobacco)	
Pt	Populus trichocarpa	XP002322296
	(western balsam poplar)	
Rc	Ricinus communis	XP002511110
-	(castor bean)	
Sb	Sorghum bicolor	XP002444680
	(sorghum)	
SI	Solanum lycopersicum	AW034575
	(tomato)	
St	Solanum tuberosum	retrieved from
	(potato)	http://solgenomics.net/tools/bl
	(1-0-0000)	ast/index.pl
Tg	Tulipa gesneriana	AAD56411
	(tulip)	
Vv	Vitis vinifera	XP002284464
	(grape)	
Zm	Zea mays	ACG40967
	(maize)	
this study	\ =	L

^{*} this study

Supplemental Table 2. *N. tabacum* genes involved in early leaf development and the CYCD/Rb/E2F pathway of the cell cycle used in our analysis.

N. tabacum gene	Accession number	Reference
NtANTL	AY461432	Rieu <i>et al</i> , 2005
NtCYCB1;1	Z37978	Qin <i>et al</i> , 1995
NtCYCD3;1	AJ011893	Sorrell et al, 1999
NtE2FB1	AB025347	Sekine <i>et al</i> , 1999
NtE2FB2	HE653923	this study
NtE2FC	HE653922	this study
NtPHAVOLUTA- like HD-ZIPIII	TC82772; AAS66760	McHale and Koning, 2004
NtRBR	AB015221	Uemukai <i>et al</i> , 2005

Supplemental Table 3. List of PCR primers.

	3. List of PCR primers.	
Primer name	5' primer sequence 3'	Used for
P12Age-FW	CAACCGGTATGGATGTGATTGTG	Cloning TMV-p12
P12Xho-REV	CACTCGAGCATGGTCGAGCCTCC	Cloning TMV-p12
Nt-upa20-RACE3	GCACTCATGGTCAGACCTGACCAGAG	3'RACE upp-L and upp-S
Nt-upa20-RACE-5	AATAACTTCAGCTGCCTGCGATGTAATG	5'RACE Nt upp-L, Nt
		upp-S and Nh upp-L,
		RT-PCR Nt upp-L, Nt
		upp-S and Nh upp-L
Upp-Nco-FW	AACCATGGCATCACTTTCTTGAATCCTTCC	cloning Nh upp-L
		mRNA, RT-PCR <i>Nh</i>
		upp-L
Upp-Apa-gene-REV	AAGGGCCCAAATATCCATTAATACTAGTGGTAAA	cloning Nh upp-L
		mRNA
Nt-UppL-qFW-new	GATGACAACAAAAAGAGGAAAAGAA	RT-PCR
Nt-UppS-qPCR-FW	GAGAAAAAGGAAAAGAGGAGAAG	RT-PCR
Nt-Upp-qFW3	ATCAAGAAATCAGTGGAAGCC	qRT-PCR <i>upp-L</i> and
		upp-S; ChIP
		fragment 2
Nt-UppL-qR3	TTCCGCCAGTTGACTCTTTG	qRT-PCR upp-L
Nt-UppS-qR	GCTTTCTTATTCCGCCAGTTGAC	qRT-PCR upp-S
uppL-	ATGGTAACAGAGGCAGTAGTCAAGAGAGAG	<i>upp-L</i> genome
genomeWalker-rev		walking
uppS-	CAATGGGAATTATTTATGGCGAACAATT	upp-S genome
genomeWalker-rev		walking
uppS-	ATTTCCTCAAACATGAAGGGCAACCGCAAG	upp-S genome
genomeWalker-R2		walking
UppL-1359-rev	AGATGTTAAGTAGGGCAGGG	sequencing
UppL-2514-seq-rev	GATGTAGTGTAGGGCAGGG	sequencing
Ca-F0R0-Mun-P	CACAATTGCGCAGGTTCGAATTCCCAATCCAAC	Cloning of
		proUPA20:GFP
Ca-F0R0-Mun-M	CACAATTGCTCGAGCTTTTTCAAGTTTATGATTTGCTT	Cloning of
	TG	_{pro} UPA20: <i>GFP</i>
Ca-UPA20-Nco-P	CACCATGGGCACCATGTCTACTTTTTCATCATACC	Cloning of CaUPA20
		ORF
UPA20-Xba-M	CATCTAGATTAATGGAAAGAACAAAAGTTGTTG	Cloning of CaUPA20
		ORF
ACT2-prom- Mun-P	CACAATTGATTATGTAAAAGTGCATCAATC	Cloning of
	0.0	proACT:GFP
ACT2-prom Mun-M	CACAATTGCTCGAGTTTATGAGCTGCAAACACACAAA	Cloning of
NI 400 of E DI	AAG	proACT: <i>GFP</i>
Nt-upp-103nt-EcoRI-	AAGAATTCGGCATGGGTATGAGCTAG	Cloning of L1U2 and
FW		S1U2; ChIP fragment
NI 00 400 d	A A OTO O A OTTTO A O A A A OTO OTA A A O	1
Nt-upa20-103nt-	AACTCGAGTTTGAGAAAGTCCTAAAG	Cloning of L1U2 and
Xho-Rev		S1U2; ChIP fragment
Nt uppl mage FP	A A C A ATTOTATA A A COTO A COTO A CO A ATA COT	1
Nt-uppL-prom-EcoR-	AAGAATTCTATAAAGGTGACGTGACGAATACGT	cloning of L0U0,
left		L0U1 and L0U2
Nt-uppL-gene-	ATGAATTCTCATTTAGATAACTGGCTTGAATCATC	cloning of L0U0,
EcoRI-FW		L0U1 and L0U2
Nt-UppLS-EcoRI-	TTGAATTCAAACAACAAWAAWAATATCMATT	cloning of L0U1 and

REV		S0U1
Nt-UppLS-Ncol-FW	AACCATGGCATCACTTTCTTGAATCCTTCC	cloning of the upp-L
		and <i>upp-S</i> ORFs
Nt-UppS-Xbal-gene-	AATCTAGAAAGAACAACAATAATAATATCAATTACTA	cloning of the upp-S
REV	G	ORF ,,
Nt-UppL-Xba-gene-	AATCTAGAAAATATCCATTAATACTAGTGGTAAA	cloning of the <i>upp-L</i>
REV	700101707000017010070117001701701700170	ORF
· · · · · ·	A A CTCC A CC A CTTCCTTTC VATTTC A CTCCTC	_
uppLS-Xho103-right	AACTCGAGCAGTTGCTTTGYATTTGACTGGTC	cloning of L0U2 and
		S0U2
uppL-Xhol-right-FL	AACTCGAGTTTGAGAAAGTCCTAAAGGGTCA	cloning of L0U1
uppLS-EcoR-NO-	AAGAATTCRGGACTTTCTCAAACTCATTATAATATTTA	cloning of L2U3 and
box-F		S2U3
uppL-5UTR-right-	AACCATGGCTTTTTTTTACAAATAATTCTTCTTTATTA	cloning of L0U0 and
Ncol	G	L2U3
upaS-5UTR-right-	AACCATGGCTTTTTTTAAAAAAAAAAATTCTTCTTTATTA	cloning of S0U0 and
Ncol	G	S2U3
	-	
Nt-Upp-Xhol-FW	GACTCGAGCAGAGTTTGAGTGGATTGGGA	cloning of TRV:upp-
		L
Nt-Upp-EcoRI-R	AAGAATTCAAACAACAAAAAAAAATATCCATT	cloning of TRV:upp-
		L, ChIP fragment2
NtUPA20-fw	TGCCAAATATGCAGCAAGCTA	RT-PCR upp-L and
		upp-S
NtUPA20-rev	CAGCTGCCTGCGATGTAATGT	RT-PCR <i>upp-L</i> and
11131 7120 101	5/18513551355/1151/WHO!	upp-S
Nt EE1alaha fu	GGCCCAACACTTCTTGATGC	
Nt-EF1alpha-fw		qRT-PCR
Nt-EF1alpha-rev	GGGCCTCTTGGGCTCATTAA	qRT-PCR
Nt-Beta-actin-fw	CCCCTTTCAAAACAAGAACGC	qRT-PCR
Nt-Beta-actin-rev	GTTATTGTTGGCGATGGCCT	qRT-PCR
Nt-cdc2-fw	AAATGCTCCGGTTGGATCC	qRT-PCR
Nt-cdc2-rev	CAAGGGCATTCCTGGCAGT	qRT-PCR
Nt-ANT-F	TGCAGCAGCACAGAAGTAGC	RT-PCR
Nt-ANT-R	GACAATGCATGGGAGAATAATAGC	RT-PCR
Nt-CYCD3-1-F	CTCTTCACACCTCCCACAACACA	RT-PCR
Nt-CYCD3-1-R	GGCAGTCAAAGCAGAAACCAT	RT-PCR
Nt-RBR-F	CGTTTTGGCTGGTTGCTATTTCTT	RT-PCR
Nt-RBR-R	CACCCTTGTTCTGTATTGCATCACT	RT-PCR
Nt-E2FB1-F	TACCACCGCTTCTCTACTGACCCA	RT-PCR
Nt-E2FB1-R	GCGCCTTTTCTGCACCTCTAAT	RT-PCR
Nt-RB_F1	TGGTCCAACATTAAGCAATCTGTACG	qRT-PCR
Nt-RB_R1	AAAAGGCTCAAATGCACGAAGTTG	qRT-PCR
Nt E2Fb F5	GTCTGGAAAAGCTGGAAACAC	qRT-PCR
Nt_E2Fb_R5	GGGAGCTATCATATCGACAAGG	qRT-PCR
Nt_E2Fc_F5	TTAGCTCCACTTCATCTAATGTCTC	qRT-PCR
Nt_E2Fc_R5	TCGTCTTACAAACTCCATATCCAC	qRT-PCR
Nt_AINT_F5	GTAGTGGATTCTCAAGAGGTGC	qRT-PCR
Nt_AINT_R5	TGTGCTGAAAGTCCCAAGATAG	qRT-PCR
Nt_CYCB1_F2	GCCTGAGAGCCTTTACCTTAC	qRT-PCR
Nt_CYCB1_R2	TCT GGTGCCCAAATCTCTTC	qRT-PCR
Nt-E2F51-	GTTTTCCACAGACCCGGTTCATTGTTCA	3'RACE NtE2FB2,
seqRACE3		RT-PCR
Nt-E2FB2-uni-R	GAGTTCAAATGGCTGTACAGAGGATTT	5'RACE NtE2FB2,
		RT-PCR
Nt-E2Fc-F	AGCTCGGAATTTATTTGCCTCGTCTACA	3'RACE <i>NtE2FC</i> ,
	ASSISSON THAT ISSUED TO THOM	RT-PCR
		NI-FUN

Nt-E2Fc-R	TCGGCCTCCTGAAGCAAACTAATGAAT	5'RACE NtE2FC,
		RT-PCR
Nt-CYCB1-F	CCGATGGAAGAAATAGGCGTGCT	RT-PCR
Nt-CYCB1-R	TGGTAATTGTAAGGTAAAGGCTCTCAGG	RT-PCR
Nt-PHAVO-F	ACAAGAAACCAGTGGGGAAATCC	RT-PCR
Nt-PHAVO-R	CCACAGTCTGAGCTAGGGGTAAAATG	RT-PCR
Nt-EF1alpha-pos	ATGGGTAAAGAGAAGTTTCAC	RT-PCR
Nt-EF1alpha-neg	CACGATTTCATCATACCTAGC	RT-PCR
UPAbox F	CTCCTTATGTTTATATAAACCTGACCCTTTAGGACTTT	EMSA
	CT	
UPAbox R	AGAAAGTCCTAAAGGGTCAGGTTTATATAAACATAAG	EMSA
	GAG	
UPAbox-rand F	CTCCTTATGATCTCAAGATTTTCTACTATCAGGACTTT	EMSA
	CT	
UPAbox-rand R	AGAAAGTCCTGATAGTAGAAAATCTTGAGATCATAAG	EMSA
	GAG	

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